



ASSOCIATION OF CONSULTING  
ENGINEERING COMPANIES  
NORTHWEST TERRITORIES



THE CANADIAN  
GEOTECHNICAL SOCIETY  
LA SOCIÉTÉ CANADIENNE  
DE GÉOTECHNIQUE

## CANADIAN GEOTECHNICAL SOCIETY'S CROSS CANADA LECTURE TOUR

ACEC-NT in partnership with The Canadian Geotechnical Society presents:

### SHIFTING GROUND: PERMAFROST CHALLENGES IN A CHANGING CANADIAN NORTH

**Jocelyn L. Hayley, PhD, P.Eng, FEIC, FCAE**  
Professor (Geotechnical), Department of Civil Engineering  
University of Calgary



Thawing of once frozen permafrost, is irrevocably altering the landscape of our Canadian North. As the once stable ground shifts and moves, overlying infrastructure is subject to damage; imminently threatening our ability to connect communities, provide stable housing, and protect our Arctic. Amplified temperature rise, accompanied by volatile weather patterns, impacts the fragile permafrost ecosystem adding uncertainty to our social, economic, and environmental future. Recent case histories help us understand the current state of practice in permafrost geotechnical engineering: the innovations; the challenges; and the opportunities, while formation of extended and inclusive communities of practice and co-development of knowledge set the scene for a vibrant future as we explore forward-looking climate adaptation and continued sustainability in our Canadian North.

**Tuesday December 17th, 2024, 6 to 9 pm**  
**Yellowknife Historical Museum, Ingraham Trail, Yellowknife**

**Dinner Provided**

**Cash Bar**

**RSVP by December 9<sup>th</sup> to [acecntpres@gmail.com](mailto:acecntpres@gmail.com)**

Participation capped at around 40 people

**The Canadian Geotechnical Society's Cross Canada Lecture Tour – Fall 2024 Sponsors:**



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